## President's Message

## The Healthy State of Electrochemistry

I am writing this in the month before Pittcon®'98. This meeting promises to be better than ever. First of all, we will have the celebration of two new award winners, Larry Faulkner and Greg Swain. Congratulations, Larry, on being named the Reilley Award recipient for 1998. You gave electrochemistry photons in electrogenerated chemiluminescence experiments, automation with the BAS 100, and brought the word "nanosecond" into the vocabulary of SEAC members through your ultrafast chronoamperometry experiments. All these developments changed the way many of us view our science and the things we can do with it. Furthermore, let me add to Debra's congratulations in the last SEAC newsletter concerning your move to Texas. With you as President there, the University is in very good hands. I actually have a personal stake in this since my son is an undergraduate at UT.

Heartiest congratulations also to Greg for being the well-deserved recipient of the Young Investigator Award. Greg's developments with new forms of carbon for electrodes have also expanded our discipline.

But the month before Pittcon® can also be a time of chaos. It's a time when the data need to be collected and summarized for that talk or poster that you promised when you submitted your abstract. Last summer when the abstract was due it all looked so straightforward. The idea was in place and all that had to be done was provide some data to demonstrate it was correct. And the reward—not only the good science of the Pittsburgh Conference, but a trip to New Orleans to get an early start on Spring. But now, it's crunch time. Certainly in my lab many are saying "Why doesn't this experiment work out like we thought it would?" Oh well, my prediction is that it will work eventually and that the talks will all turn out well. It would be interesting to document, however, how many of the best experiments in electroanalytical chemistry get done in the crunch that occurs the month before Pittcon®.

This year, the month before Pittcon® has also been an exciting time nationwide with all the news and gossip coming out of Washington. I want you all to be aware that, as president of SEAC, I will do everything I can to avoid the notoriety that the president of this country has had to confront. Indeed, if your find scurrilous accusations concerning my behavior in this newsletter or elsewhere, you should take a hint from the way it's done by the press. Is there a tape containing evidence of the accused behavior? Was the tape obtained legally??

Those of you who read beyond the gossip in the national press may have noticed some even more important items being discussed. Present thoughts about the national budget suggest that science funding may be in for some significant increases. This will allow a recovery in academia from the tight fiscal times for science of the recent past. In addition, it comes at a particularly important time when chemistry departments are seeking new faculty members and their research programs are getting started. If these predicted increases occur, we should all make sure that the money is used well in the discovery of new science.

Mark Wightman

#### **Editorial**

I hope the membership doesn't get whiplash from two issues of SEAC Communications plopping into their

(respective) mailboxes in such short order. This rapid repeat is due to the (frantic) desire to have a Pittcon®-flavored issue of SEAC Communications arrive somewhat (slightly, a soupçon) before Pittcon®'98 actually occurs. And if not, at least you hard-copy-only readers will all be remarkably 20-20 in your hindsight!

SEAC continues its relentless crawl into the late 20th Century. SEAC Communications is being Webbed as I type. Sam Kounaves is loading information onto both test home pages [http://electrochem.tufts.edu/seac/ and http://electrochem.tufts.edu/seac/]. As you read this hard copy of issue 14(1), the issue has been available on the trial site(s) since mid-February—a bonus for SEAC surfers. Check it out! You, the Web-literate reader, can now also find on the home page a permanent listing of past winners of the Reilley and Young Investigator Awards and the deadlines for nominations for future winners as well as information on the SEAC Graduate Student Travel Grant. If you are reading this on the web pre-Pittcon®, please e-mail me at rolison@nrl.navy.mil

Comments and suggestions from the membership regarding SEAC's new home page(s) are still welcome and desired [rolison@nrl.navy.mil and/or skounave@tufts.edu]. I will obtain approval of the inaugural design at the Annual Meeting of SEAC's Board of Directors at Pittcon®'98 (New Orleans, 1-5 March 1998). SEAC will then officially commence its electronic existence, again courtesy of and full thanks to Sam Kounaves. One of SEAC Communications' regional editors, Alan Bond on behalf of Australia, has suggested [see issue 13(4)] that SEAC Communications continue in its dual incarnation as a hard copy and an on-line "copy" for one year before phasing out mailing paper copies. Works for me. Unless I hear strenuous and heated complaints to the contrary before the Board of Directors meeting on Tuesday, 3 March, I shall officially propose to the Board that we cease publishing a paper version of the newsletter effective upon mailing the 1999 pre-Pittcon® issue of the newsletter.

Finally, it is clear by even a scan of the <a href="Pittcon®'98">Pittcon®'98</a> symposia how pervasive electrochemistry and the many-flavored interests of SEAC's members have become at the Pittsburgh Conference. Even symposia that were not organized by SEAC members or are not directly affiliated with electrochemistry, bioanalytical science, or sensors contain one or two papers electrochemical in theme as part of the symposium. So, I expect to see the SEAC multitudes in New Orleans and at the annual business meeting on Tuesday afternoon. And please find me during the meeting and tell me what you like (and especially what you don't like) about the newsletter.

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#### **SEAC** on the Move!

CHUCK HUSSEY, Professor of Chemistry at the University of Mississippi, has recently accepted the position of Chairman of the Department of Chemistry, despite the counsel of long-time friend BOB OSTERYOUNG. (Doing electrochemistry in molten salts does seem to drive people into administrative positions.) Chuck's first major job is to search for a new Dean for the College of Liberal Arts (Chuck denies that the Dean decided to retire after he was selected; he says it is simply a coincidence). Chuck will be chairing the Olin Palladium Medal Subcommittee of the Electrochemical Society again and wants to remind the SEAC membership to get their nominations to him as soon as possible. He can be reached at chclh@chem1.olemiss.edu.

#### Items of Note, Noted in Passing

### —Hail to Johna Leddy!!—

While many of us were preparing for Christmas holidays (and a few misfortunate of us were putting the finishing touches on organizing ACS symposia), JOHNA LEDDY (University of Iowa) was smack in the middle of America (Iowa City) getting married. The groom is MALCOLM H. YEH, a neurologist, who in addition to a now-heightened interest in electroanalytical chemistry is also interested in mapping dipole activity in the brain. The wedding was 20 December 1997 in Iowa City. As always, SEAC Communications had on-site representation. Details (and photos!) will follow courtesy of ALANAH FITCH (Loyola University of Chicago).

... Congratulations, Johna, from all your SEAC compatriots!!

#### —SEAC Members Beware: Drive-by Insults May Be Coming Your Way!—

After an exhausting two-day review of the AFOSR and ONR Programs in Electrochemical Science and Technology (Ventura, CA; 15-16 January 1998), a few of the survivors experienced the following traumatic event:

It was a dark and stormy night...well...it was night (well past 11:00 p.m.) and it was dark as the only photons that filtered down came from flitting glimpses of the moon. The Quasi-Magnificent Seven (TITO ABRUÑA, DAN (a.k.a. Dave) BUTTRY, JOE HUPP, CHUCK ("No Clutch") MARTIN, JAY SWITZER, HENRY WHITE, and your editor) were semi-infinitely diffusing back to the Doubletree Hotel in Ventura after a well-lubricated dinner at the fine fish restaurant (Eric Ericsson's) on the Ventura Pier. Serious electrochemical issues of profound import were being discussed (...well...maybe...maybe not...we'll never tell), so we, the Q-M7, weren't paying much attention to the car with tinted windows trailing us in the dark. Just as a few of us decided to look over at our vehicular shadow, the car sped up, the passenger-side window glided down and the following was hurled at us in tones eerily reminiscent of DICK CROOKS: "LO-O-O-SERS!" Before we could retort, MARK WIGHTMAN (your President (and ours) and the driver of the getaway vehicle) leaned across Dick and added the coup de grâce:

#### **ELECTROCHEMISTS!**

Had the miscreants lingered rather than making a high speed exit, they would have seen seven loser-electrochemists laughing so hard they couldn't walk (even JOE HUPP was bent-double with laughter). Thanks Mark and Dick (and your silent partner, MARYANNE COLLINSON): WE NEEDED THAT!

...Dick Crooks' surreptitiously modified business card was later observed at the GRC on Electrochemistry: Richard M. Crooks, Texas A&M University: Professor... Loser...ELECTROCHEMIST!

#### -Return of the Parisienne martin-i !!-

Lost in the respective memory banks of your editor and CHUCK (Moondoggie) MARTIN was the fact that a photographic stringer for SEAC Communications (Prof. Ellen Fisher, Department of Chemistry, CSU, [erfisher@lamar.colostate.edu]) was documenting the noble SEARCH FOR A LEGITIMATE MARTINI. The proof (at least 94 Bombay Sapphire proof) turned up and is shown below:



...check out that olive! Sorry that Ellen couldn't get the Tour Eiffel in the background, too...but she \*was\* focused on the important items...the martinis!

#### **Special Exclusive Rebuttal!**

Henry White (a.k.a. Horseshoe Henry) has submitted the following:

I enjoyed KEITH STEVENSON'S tale (SEAC Communications 1997, 13(4)) of my group's recent fishing trip in the High Uintas. Some of what he wrote is even true—there are very few experiences more enjoyable than trout fishing at 13,000 feet in unspoiled wilderness. Concerning any tendency I have for needing to be rescued from my

adventures...hell, that's what separates an adventure from an ordinary hike. Electrochemists who have visited us in Utah have unknowingly walked into a rattlesnake den (TITO ABRUÑA) and snowshoed up unstable avalanche-prone slopes (MICHAEL WARD)—the rest of 'em (including the SEAC newsletter editor) have found themselves lost 4-wheeling across the canyonlands of southern Utah with a guide that has never owned a map. Although the above-timberline electrical storm that Keith describes in his story did indeed provide an incredible backdrop for fishing, it wasn't of sufficient concern to rate a raised (mortal) eyebrow, horseshoes notwithstanding!

Sincerely, HENRY WHITE

...don't forget, Henry, there also was that sand dervish that tried to eat your Jeep during that nearly map-free exploration of Utah's incredible canyonlands...

[PS: of \*course\* this letter can go on your curriculum vitae!!]

# Charles N. Reilley Award Nominations and SEAC Young Investigator Award Nominations Solicited (Yes...Still!!)

Nominations for the 1999 C.N. Reilley Award, sponsored by Bioanalytical Systems, Inc., continue to be solicited. Nominations should include a letter of nomination describing the individual's significant contributions to electroanalytical chemistry, at least two seconding letters of support, and a curriculum vitae for the individual. All nomination materials will be retained by SEAC.

Nominations for the 1999 SEAC Young Investigator Award, sponsored by Ensman Instruments, continue to be solicited. Potential recipients must be within seven years of obtaining their Ph.D. or other terminal degree at the time of nomination. Candidates may be nominated by any member of SEAC. Nominations should include a letter of nomination describing the individual's promise in the area of electroanalytical chemistry, at least one seconding letter of support, and a curriculum vitae for the individual. All nomination materials will be retained by SEAC.

Once nominated, any individual will be considered for the specified Award for three years without needing to be renominated. The submission of any additional supporting information or a renomination is welcome at any time, but the decision on the 1999 Award will be based upon the material that is available to the Award Committee on February 27, 1998.

For further information, please contact Dan Buttry at:

voice: 307-766-6677 FAX: 307-766-2807 email: <u>buttry@uwyo.edu</u>

All nomination materials should be sent to:

Professor Dan Buttry
Department of Chemistry
University of Wyoming
Laramie, WY 82071-3838

### PREVIOUS REILLEY AND YOUNG INVESTIGATOR AWARDEES

A permanent listing of prior awardees can be found on the SEAC home page:

http://electrochem.tufts.edu/seac/ or http://electrochem.tufts.edu/seac2/

#### Pittcon News Flash!!!!!!!!!!

Four graduate students have been awarded SEAC Graduate Student Travel Grants, sponsored by EG&G

Instruments, Princeton Applied Research. These competitive awards are made to promising graduate students to support the cost of travel to the Pittsburgh Conference to deliver an oral presentation on their dissertation research in a Conference symposium. The awardees and their institutions, Pittcon®'98 presentation titles, and thesis advisors are:

FRANCIS BURNS (University of Toledo)

Advisor: JON KIRCHHOFF

"Development of Microsensors Based on Ring-Disk Ultramicroelectrodes"

JENNIFER PETERS (Univ. of Pittsburgh)

Advisor: ADRIAN MICHAEL

"Monitoring Electrically Evoked Release of Dopamine with Voltammetry and Dialysis: Insights into Quantitation of

In Vivo Dopamine Levels"

STEVEN PETROVIC (Ohio University)

Advisor: HOWARD DEWALD

"On-Line TLC-SWASV for the Real-Time Determination of Cd2+, Cu2+ and Pb2+"

JAMES ROBERTS (NC State University)

Advisor: JANET OSTERYOUNG

"Microelectrode Voltammetry Detects Phase Transitions in Aqueous Sodium Dodecyl Sulfate"

## **Kudos to SEAC member Janet Osteryoung!!**

Janet Osteryoung, Professor of Chemistry at the North Carolina State University and Director of the Chemistry Division of the National Science Foundation, is the 1998 recipient of the Pittsburgh Analytical Chemistry Award from the SACP (Society for Analytical Chemists of Pittsburgh) for: "her outstanding accomplishments in the field of electrochemistry, her service to the analytical community, and her superb professional, personal and leadership skills."

Professor Osteryoung has previously been recognized by the American Chemical Society (Garvan Medal and the Electrochemistry Award); Iota Sigma Pi (Triennial Honorary Member Award); the Association of Analytical Chemists (Anachem Award); and the Western New York ACS (Schoellkopf Medal). She also served an illustrious term as President of SEAC.

The program for Janet's award symposium at Pittcon®'98 follows.

SYMPOSIUM (SESSION 63): Pittsburgh Analytical Chemistry

—arranged by John P. Baltrus (U.S. Department of Energy-FETC), Presiding

Tuesday Morning, 3 March 1998, Room 53-54—Morial Convention Center, New Orleans, LA

8:30 INTRODUCTORY REMARKS—John P. Baltrus

8:35 (514) MESOSCOPICALLY PERIODIC MATERIALS FOR CHEMICAL SENSING, SEPARATIONS, AND OPTICAL DEVICES—Sanford A. Asher (University of Pittsburgh), J.H. Holtz, J.M. Weissman, L. Liu, C.H. Munro, G. Pan

9:10 (515) ADVANCES IN CHARACTERIZATION OF ALKYLSILANE STATIONARY PHASES FOR RPLC BY RAMAN SPECTROSCOPY—Jeanne Pemberton (University of Arizona), M. Ho

9:45 (516) ADSORPTION AND DIFFUSION AT LIQUID/SOLID INTERFACES—Mary J. Wirth (University of Delaware), X. Huang, L. Doenski, D. Swinton

10:20 RECESS

10:35 (517) MOLECULAR STRUCTURE AND HYDROGEN BONDING OF WATER AT LIQUID SURFACES AND INTERFACES—Geraldine L. Richmond (University of Oregon), D.E. Gragson

#### 11:10 Presentation of the 1998 Pittsburgh Analytical Chemistry Award

to

## Janet G. Osteryoung

National Science Foundation and North Carolina State University
by
Richard Obrycki, Chairman
Society for Analytical Chemists of Pittsburgh

11:15 (518) AWARD ADDRESS: MACROIONIC SYSTEMS: CHARACTERIZATION OF ION TRANSPORT—Janet G. Osteryoung (North Carolina State University), M. Ciszkowska, J.M. Roberts

...Many congratulations, Janet...and laissez les bon temps rouler!...this makes the second year in a row that SACP has awarded its highest honor to a SEAC member (the 1997 recipient was SEAC's El Prez: R. Mark Wightman)

Plan your attendance accordingly! Part One.

Pittsburgh Conference—1-6 March 1998, New Orleans, LA
Electrochemical/SEAC Focus

Congratulations to the 1998 SEAC Award Winners!

As announced in the July 1997 newsletter, the Charles N. Reilley Award for 1998 will be presented to Professor Larry Faulkner of the Department of Chemistry at the University of Illinois at Urbana-Champaign and the 1998 Young Investigator Award will be presented to Professor Greg Swain of the Department of Chemistry at Utah State University. Please refer to issue 13(3) of the newsletter for their research biographies. The Reilley Symposium in their honor has been arranged by Professor Marcin Majda of the University of California at Berkeley and will be held on Tuesday afternoon, 3 March 1998, Room 101-102 of the Morial Convention Center. The winners of the SEAC Graduate Student Travel Grant will also be announced during the Reilley Award Symposium. The program follows below.

Immediately following the Reilley Award symposium, the annual meeting of the SEAC membership will be held in the same room. Please plan to stay for this brief business meeting that is required of all tax-exempt organizations.

The Reception for Reilley Awardee Larry Faulkner and Young Investigator Greg Swain will be held on Tuesday, 3 March from 5:00 to 7:00 p.m. in the Oak Alley Room of the New Orleans Hilton Riverside. Members and guests are welcome. Reservations are not necessary. Hors d'oeuvres will be provided with a cash bar.

SYMPOSIUM—CHARLES N. REILLEY AND THE YOUNG INVESTIGATOR AWARDS Tuesday Afternoon, Room 101-102, Morial Convention Center, New Orleans, LA Marcin Majda (University of California at Berkeley), Presiding

- 1:30 INTRODUCTORY REMARKS—R. Mark Wightman
- 1:35 Presentation of the 1998 Charles N. Reilley Award to

#### Larry Faulkner

and

The 1998 Young Investigator Award of the Society for Electroanalytical Chemistry to **Greg Swain** 

by

Professor R. Mark Wightman, President, Society for Electroanalytical Chemistry

1:40 (697) AWARD ADDRESS. AS OUR SCIENCE OPENS ITS THIRD CENTURY—Larry Faulkner (University of Illinois at Urbana-Champaign)

2:15 (698) MONOLAYERS AND NANOSECOND TIMESCALES: NEW DIMENSIONS IN ELECTROCHEMISTRY—Robert Forster (Dublin City University)

2:50 (699) AWARD ADDRESS: THE PROPERTIES OF BORON-DOPED DIAMOND THIN FILM ELECTRODES: SOME APPLICATIONS IN ELECTROANALYSIS—Greg M. Swain (Utah State University)

3:25 RECESS

3:40 (700) LONG RANGE ELECTRON TRANSFER THROUGH LIPID MONOLAYERS AT THE LIQUID/LIQUID INTERFACE—Allen J. Bard (University of Texas at Austin), M. Tsionsky, M.-H. Delville, M.V. Mirkin

4:15 (701) ELECTRON TUNNELING ACROSS ALKANETHIOLATE MONOLAYERS ON EXPANDING MERCURY DROP—Marcin Majda (University of California at Berkeley), K. Slowinski, R.V. Chamberlain, C.J. Miller

# Other Pittcon®'98 Symposia of Electrochemical Interest (a.k.a.: SEAC Rules!!)

-Sunday Afternoon, 1 March 1998-

+ SYMPOSIUM—BIOANALYTICAL TECHNIQUES FOR FOOD SAFETY

Room 59—arranged by Richard A. Durst (Cornell University), Presiding

+ BIOANALYTICAL—ELECTROPHORESIS

Room 60—Susan M. Lunte (University of Kansas), Presiding

+ SYMPOSIUM—ELECTROCHEMISTRY: SURFACES, MODIFIED ELECTRODES

Room 55-56—James A. Cox (Miami University of Ohio), Presiding

—Monday Morning, 2 March 1998—

+ SYMPOSIUM—BIOANALYTICAL: IMAGING AND INTERFACES I

Room 95-96—Fred M. Hawkridge (Virginia Commonwealth University), Presiding

+ BIOANALYTICAL—SENSORS I

Room 89—Mark E. Meyerhoff (The University of Michigan), Presiding

+ BIOANALYTICAL—SEPARATIONS

Room 87-88—Peter W. Carr (University of Minnesota), Presiding

+ MATERIALS CHARACTERIZATION—CHARACTERIZATION OF NANOSCALE PARTICLES

Room 60—S. Dean Tzeng (SDT Integral), Presiding

+ SYMPOSIUM—CHEMICAL ANALYSIS IN NANOENVIRONMENTS: PUSHING THE FRONTIERS

—arranged by Andrew G. Ewing (Pennsylvania State University) and R. Mark Wightman (University of North Carolina at Chapel Hill)

Room 64-66—Andrew G. Ewing (Pennsylvania State University), Presiding

+ SYMPOSIUM—PROCESS RAMAN FOR ON-LINE AND AT-LINE ANALYSIS

Room 61-62—arranged by Richard L. McCreery (Ohio State University), Presiding

+ ELECTROCHEMISTRY—ELECTRODE MATERIALS AND MEDIA I

Room 57—William R. Sharpe (Clarion University of PA), Presiding

-Monday Afternoon, 2 March 1998-

+ SYMPOSIUM—BIOANALYTICAL APPLICATIONS OF CAPILLARY ELECTROPHORESIS

Room 101-102—arranged by Haleem J. Issaq (NCI-Frederick Cancer R&D Center), Presiding

+ BIOANALYTICAL—ANALYSIS IN BIOLOGICAL SYSTEMS

Room 89—Owe Orwar (Goteborg University), Presiding

+ BIOANALYTICAL—PROTEIN CHEMISTRY

Room 87-88—Michael Ryan (Marquette University), Presiding

+ BIOANALYTICAL—SENSORS II

Room 95-96—Werner G. Kuhr (University of California at Riverside), Presiding

- + SYMPOSIUM—JAMES L. WATERS NINTH ANNUAL SYMPOSIUM: IMMUNOASSAY
- —arranged by Stephen G. Weber (University of Pittsburgh) and Johannes F. Coetzee (University of Pittsburgh)

Room 64-66—Stephen G. Weber (University of Pittsburgh), Presiding

+ ELECTROCHEMISTRY—ELECTRODE MATERIALS AND MEDIA II

Room 94—Dennis C. Johnson (Iowa State University), Presiding

-Tuesday Morning, 3 March 1998-

+ BIOANALYTICAL—CE: BIOANALYTICAL APPLICATIONS

Room 89—Thomas E. Wheat (Thermo BioAnalysis), Presiding

+ BIOANALYTICAL—POTENTIOMETRIC ION SENSORS: BEYOND TRADITIONAL LIMITS

Room 95-96—Eric Bakker (Auburn University), Presiding

+ MATERIALS CHARACTERIZATION—CHARACTERIZATION OF MONOLAYERS AND MULTILAYER MATERIALS

Room 55-56—Singh Manocha (PPG Industries, Inc.), Presiding

+ MICROSCOPIC CHARACTERIZATION OF MATERIALS

Room 63—Garry J. Lynch (Westinghouse-Bettis), Presiding

+ ELECTROCHEMISTRY—MICROELECTRODES

Room 100—Richard L. McCreery (Ohio State University), Presiding

-Wednesday Morning, 4 March 1998-

- + SYMPOSIUM—REVOLUTIONARY CHANGES IN TEACHING OF ANALYTICAL CHEMISTRY
- —arranged by Pam Mabrouk (Northeastern University) and Theodore R. Williams (The College of Wooster) Room 59—Theodore R. Williams (The College of Wooster) and Frank Settle (National Science Foundation), Presiding
- + SYMPOSIUM—SINGLE MOLECULE DETECTION COMES OF AGE: TWO YEARS LATER Room 64-66—arranged by Shuming Nie (Indiana University), Presiding

-Wednesday Afternoon, 4 March 1998-

- + SYMPOSIUM—NOVEL MATERIALS AND DEVICES BASED ON ELECTROCHEMICAL CONCEPTS
- —arranged by Mark E. Meyerhoff (The University of Michigan) and Stephen G. Weber (University of Pittsburgh) Room 58—Mark E. Meyerhoff (The University of Michigan), Presiding
- + ELECTROCHEMISTRY—VOLTAMMETRY, DETECTORS

Room 63—Johannes F. Coetzee (University of Pittsburgh), Presiding

—Thursday Morning, 5 March 1998—

+ SYMPOSIUM—NEW STRATEGIES FOR ELECTROCHEMICAL DETECTION IN FLOWING STREAMS

Room 59—arranged by Stephen Creager (Clemson University), Presiding

+ ELECTROCHEMISTRY COMBINED WITH OTHER PROBES

Room 89—Adrian C. Michael (University of Pittsburgh), Presiding

—and be sure to check out the work of some of SEAC's Student Members who will be presenting posters at Pittcon®'98 on Monday, 2 March 1998—

#### POSTERS—ELECTROCHEMISTRY

Posters will be on display from 9:00 a.m. to 5:00 p.m. Authors will be present from 9:00-11:00 a.m. for posters with even paper numbers and from 3:00-5:00 p.m. for posters with odd paper numbers. The posters will be

located in Rooms 90-91-92 of the Morial Convention Center.

- (1680P) CONTROLLED-POTENTIAL COULOMETRIC DETERMINATION OF IRIDIUM COUPLED WITH MICROWAVE IRRADIATION OF ITS STRONG COMPLEXES—Elena S. Toropchenova (Kurnakov Institute of General & Inorganic Chemistry), N.A. Ezerskaya, I.V. Kubrakova, T.F. Kudinova, I.N. Kiseleva
- (1681P) THE ROLE OF PHYSIOLOGICAL BUFFERS ON THE SENSITIVITY IN THE URIC ACID DETERMINATIONS AT TREATED CARBON FIBER ULTRAMICROELECTRODES—Roberto Bravo (University of Florida), A. Brajter-Toth
- (1682P) COMPARISON OF THE PERFORMANCE OF ACTIVE PYROLYTIC GRAPHITE IN XANTHINE DETERMINATIONS—Eder T.G. Cavalheiro (University of Florida), A. Brajter-Toth
- (1683P) MEDIATED OXIDATIONS OF BIOMOLECULES IN SOLIDS PREPARED BY SOL-GEL CHEMISTRY—Veronica M. Jones (Miami University at Oxford), J.B. Laughlin, J.A. Cox
- (1684P) SENSITIVITY AND SELECTIVITY IN BIOLOGICAL XANTHINE DETERMINATIONS USING CARBON FIBER ULTRAMICROELECTRODES—Eder T.G. Cavalheiro (University of Florida), R. Bravo, A. Brajter-Toth
- (1685P) CHEMICAL RENEWAL OF CARBON ELECTRODE SURFACES—Adrian L. Pishko (Michigan Technological University), D.J. Chesney
- (1686P) DETECTION OF SULFUR COMPOUNDS AT BISMUTH(V)-DOPED MANGANESE DIOXIDE FILM ELECTRODES—Brett Simpson (Iowa State University), L.K. Woo, D.C. Johnson
- (1687P) ELECTRICAL AND POTENTIOMETRIC CHARACTERISTICS OF PLASTICIZED POLYMERIC MEMBRANES LOADED WITH AT LEAST TWO ION-SELECTIVE IONOPHORES—Miklos Erdosy (Sensor Systems, Inc.), V. Cosofret, R.P. Buck
- (1688P) THE PETROCHEMICAL INHIBITOR "REACOR-10" FOR PROTECTION OF MILD STEELS FROM CORROSION IN MINERALIZED H2S-CONTAINING MEDIA—Semen S. Zlotsky (Ufa State Petroleum Technological University), D. Rakhmankulov, D.E. Boughai, A.I. Gabitov, A. Laptev
- (1689P) ELECTROLYTIC BEHAVIOR OF PICRIC ACID AND SODIUM-PICRATE IN 2-METHOXYETHANOL SOLUTIONS FROM -10 TO 80°C—L. Tassi (University of Modena), G.C. Franchini, A. Marchetti, C. Preti
- (1690P) MECHANISTIC STUDY OF CHLORPROMAZINE OXIDATION USING CHRONOAMPEROMETRIC LOGARITHMIC SIGNATURES—J.T. Maloy (Seton Hall University), B.A. Sarsfield
- (1691P) VOLTAMMETRIC DETECTION OF ANTIMONY AND LEAD FROM GUNSHOT RESIDUES—Curt A. Woolever (Ohio University), D.E. Starkey, H.D. Dewald
- (1692P) MICROELECTRODE VOLTAMMETRY DETECTS PHASE TRANSITIONS IN AQUEOUS SODIUM DODECYL SULFATE—James M. Roberts (North Carolina State University), J.G. Osteryoung

...Bring your track shoes...especially for Monday! The full schedule for the above symposia can be found at: <a href="http://www.pittcon.org">http://www.pittcon.org</a>

Plan your attendance accordingly! Part Deux.

Gordon Research Conference on Chemical Sensors and Interfacial Design 12-17 July 1998, New England College, Henniker, NH

Art Janata (jiri.janata@chemistry.gatech.edu) invites SEAC to beautiful New Hampshire for great discussions on sensors and interfaces. The program follows and can also be found as part of the GRC Web site (http://www.grc.uri.edu).

Chemical Sensors and Interfacial Design—Art Janata, Chair; Tom Mallouk, Vice-Chair

SUNDAY EVENING: Sensing Systems for Assays

Luc Bousse—"Microfluidic analytical systems"

• Jarda Ruzicka—"Renewable cell sensors"

## MONDAY MORNING: New Materials

- Debra Rolison—"Composites of Being and Nothingness: Aerogel-Based Sensors"
- Joe Hupp—"Nanoporous Materials"
- Sossina Haile—"Proton-conducting oxides for hydrogen sensors"

#### MONDAY EVENING: DNA and Chemical Sensors

- Emil Palecek—"Electrochemical Sensing of DNA Damage and of DNA Specific Interactions"
- Rob Corn—"Design Strategies for DNA Computing at Surfaces"

## TUESDAY MORNING: Mechanisms and Interactions in Sensing Layers

- Avi Ulman—"Studies of Interactions at Engineered Surfaces Using Contact Mechanics"
- Rob Hillman—"Viscoelastic phenomena in electroactive polymer films"
- Scott Saavedra—"Structural and Functional Characterization of Immobilized Protein Films Using Planar Waveguide Techniques"

## TUESDAY EVENING: Industrial Sensing Systems

- Galen Fisher—"Control Systems for Car Exhausts"
- Toyo Moriizumi—"Chemotaxic Sensing Systems"

#### WEDNESDAY MORNING: Solid State Gas Sensors

- Werner Weppner—"Novel Solid State Ionic Sensors based on Kinetic Phenomena"
- Steve Semancik—"Gas Sensing with Microhotplates"

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Department of Chemistry St Bonaventure University St Bona, NY 14778 LWIER@SBU.EDU

## -Feedback!! We love it! Thanks, Larry-

In message Tue, 27 Jan 1998 17:59:27 -0500, David Blauch writes:

Greetings, Debra. This is just a brief note to say "Hello". I hope the navy is treating you well.

I see you've received some responses about the SEAC web page. That sounds like a good idea. I've been managing the chemistry department pages here at Davidson for awhile, and I even run a genealogical web site (part of the USGenWeb project). The sites are really pretty easy to set up and administer. We have a dedicated web server for the chemistry department, which gives me room to experiment and freelance. I've started writing Java applets to help my students with some of the course material. The technology is fascinating and quite versatile.

Well, enough about the web. I may be passing through Washington DC in early March. If you are back from Pittcon®, I'll stop by. Dave

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—groan...you remember the USN, Dave. Fortunately, I am still predominantly left to my own devices. And I agree about the versatility and usefulness of the Web...anything that lowers activation barriers is welcome—

# Minutes of the Meeting of the SEAC Membership Atlanta, Georgia; 19 March 1997

The meeting was called to order by President RICK MCCREERY at 12:10 p.m. Approximately 45 members and their guests were present.

The Minutes of the 1996 Meeting of the Society were distributed by the Secretary; these Minutes were subsequently approved, as corrected. In response to a question from a member regarding "invitations" to the annual Reilley Award Dinner, the Secretary informed the membership that the information he had submitted to the Pittcon®'97 Program was technically incorrect. While the Program indicated that attendance at the dinner was "By Invitation Only" (which implies that SEAC pays for the meal), it should have read "Reservations Required", with the understanding that only the meals of the awardees and their guests are provided by SEAC. It is hoped that this error will be corrected in future Programs. Any Member who wishes to attend the Reilley Award Dinner at her/his own expense may make reservations before Pittcon® with any Officer or Director.

The Treasurer's Report was given by Treasurer JOE GORDON. The net worth of the Society now exceeds \$51,000. Of this, ~\$23,000 is in the Reilley Award Endowment Fund. The remainder is distributed between the Life Membership Endowment Fund (\$15,000) and Working Capital (\$13,000).

Certificates of Appreciation were awarded to retiring SEAC Board Members NEAL ARMSTRONG, WILLIAM E. GEIGER, and JOSEPH G. GORDON; to the retiring Editor of SEAC Communications, RICHARD A. DURST; and to Pittsburgh Conference President JOANNE H. SMITH and to Conference Program Chairman DANIEL A. WILSON.

The President welcomed new Board members JIM COX, DICK CROOKS, and DEBRA ROLISON, who had been elected in 1996, to their first meeting as SEAC Directors. He also noted that the results of the 1997 election had been announced at the Board Meeting the previous day. The following individuals have been elected as Directors

for five year terms commencing on July 1, 1997: CRAIG BRUNTLETT, JOHNA LEDDY, DENNIS TALLMAN.

Also welcomed was new SEAC Communications Editor, DEBRA ROLISON, who requested electronic submission of all future news articles. An electronic version of the newsletter is being developed which, if successful, would replace the printed version. At least one year of the paper version will continue, however.

The President noted that the Secretary is currently working on the development of a new membership data base for the Society in the hope that some improvement in the dues collection process will result. The Secretary speculated that this work would be completed in late summer, so that a new Membership Directory could be published. The Board has approved the funding for the paper publication of this new Directory.

The appointment of the following Chairmen of Standing Committees was announced for 1997-1998: Activities: to be announced; Awards: DAN BUTTRY; Finance: to be announced; Membership: ANDY EWING; Nominating: JIM COX.

The President asked the members to submit nominations for the SEAC Young Investigator Award as soon as possible; the announced deadline for nominations is March 15. It was also announced that the Board had voted to end the requirement that nominees for this Award be under the age of 35, but retained the requirement that the YI be in her/his first 7 years of a full-time professional career.

The President announced that SEAC has entered into non-binding negotiations with ESEAC, the European Society of Electroanalytical Chemistry, to hold a joint meeting to be held in Bonn in 2000. A committee has been appointed to look into the details of this meeting and to report its recommendations to the Board.

Details were presented for the new SEAC Graduate Travel Grant sponsored by EG&G Instruments, Princeton Applied Research. Two to four awards will be given annually to graduate students who will be presenting a paper at Pittcon®. Applications for this Award should be submitted to the Awards Committee; application materials include the graduate transcript, a copy of the Pittcon® Abstract and notice of acceptance, and a letter of recommendation from the research advisor.

The meeting was adjourned at 12:30 p.m.

Respectfully submitted, J.T.Maloy, Secretary maloyjt@shu.edu

#### **Reminders to the SEAC Members**

#### —from Joe Maloy—

Pittcon®'98: As is our recent custom, we will not have a booth at the Pittsburgh Conference. The dissemination of SEAC information will take place in the vicinity of the meeting rooms where the electroanalytical papers will be presented. Please look for our brochures and assist in their distribution. Your help will be greatly appreciated, particularly at the Reilley Award Symposium.

Dues notices for 1998 and ballots have been mailed out under separate cover by the Secretary. All members should vote for new Directors and Officers before the specified deadline of 26 February 1998. Ballots should be returned to the Secretary [JOE MALOY, Department of Chemistry, Seton Hall University, South Orange, NJ 07079, USA]. All those who are not Life Members should return the dues notices and payments for 1998 dues to the Secretary at the same time.

SEAC Membership Chairman, ANDY EWING [Department of Chemistry, Pennsylvania State University, University Park, PA 16802, USA] will continue to receive all NEW MEMBERSHIP APPLICATIONS and INITIAL DUES PAYMENTS. Any new members recruited by current members should send their completed applications directly

## -Vote early...but not often!-

## Candidates Standing for Election to the SEAC Board of Directors

(three candidates to be elected)

RICHARD BALDWIN (University of Louisville) HOWARD DEWALD (Ohio State University) ANDY GILICINSKI (Air Products & Chemicals, Inc.) SUSAN LUNTE (University of Kansas)

MARC PORTER (Iowa State University) HERB SILVERMAN (Consultant)

Candidates Standing for Election as Officers of SEAC

PRESIDENT-ELECT: STEVE WEBER (University of Pittsburgh)

TREASURER: JOE MALOY (Seton Hall University)

SECRETARY: ANDY EWING (Pennsylvania State University)

#### **Welcome to New Members of SEAC**

## New SEAC-Sponsored Students (12 Jan 1997- 5 Feb 1998)

Rosemary FEENEY Tufts University

Pamela HALLOCK Northeastern Univ.

Joshua JOSEPH Univ. of North Carolina

Stephen KARIUKI Ohio University

Mark LEHMAN Univ. of Delaware

Mike LOGMAN Univ. of North Carolina

Erin MCDONALD Univ. of North Carolina

Michelle MUNDORF Univ. of North Carolina

Melissa NOLAN Tufts University

Melissa D. PERKINS University of Kansas

Ernest RITCHIE Univ. of North Carolina

Petrise RUNNLES Univ. of North Carolina

Jonathan P. SHAW University of Louisville

Curt A. WOOLEVER Ohio University

Rick A. YGLESIAS, JR. Seton Hall University

Linda ZHOU Northeastern Univ.

## New Paid Members (30 Jan 1997- 5 February 1998) [S = Student; R = Regular]

[S] Dimitri BREVNON West Virginia University

[R] Jay C. BRUMFIELD Pharmacia & Upjohn

[S] Wade CALCUTT Wake Forest University

[R] Helen CHAN Lehigh University

[S] Guoliang CHEN North Dakota State University

[R] Shaowei CHEN University of North Carolina

[S] John A. COLEMAN Lehigh University

[R] A. R. EL-KOUBYSI Cypress Systems, Inc.

[R] Dan FELDHEIM North Carolina State University

[R] Michael FREUND Lehigh University

[R] Mark HAYES Arizona State University

- [S] John C. HOEKSTRA Iowa State University
- [R] Robert KENNEDY University of Florida
- [S] Lee J. KLEIN Indiana University
- [R] George W. LUTHER III University of Delaware
- [S] Jeanette SELLERS Wake Forest University
- [R] Keith STEVENSON Northwestern University
- [R] Henry WHITE University of Utah
- [S] Lois ZOOK Los Alamos National Laboratory
- [R] Maria Alicia ZHOU Universidad Nacional de Rio Argentina

## **New Lifetime Member**

Marc D. PORTER Iowa State University

## **New Lifetime Installment Member**

Roy D. ROCKLIN Dionex Corp.